



CITY OF HOUSTON

Administration & Regulatory Affairs Department
Strategic Purchasing Division

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March 8, 2010

Subject: **Letter of Clarification No. 1,
Forklifts and Manlift For Various Departments**

Reference: **Invitation to Bid No.: S38-N23545
Bid Due Date: March 11, 2010**

To: All Prospective Suppliers:

This letter of Clarification is issued for the following reasons:

1. Note that the online bid form has been revised.
2. Bid Item No. 1, Page 12 of 27, Specification Provision 2.7.4: Change to read "Collapsed Mast Height – 83.3 inches".
3. Bid Item No. 1, Page 12 of 27, Specification Provision 2.8.2: Change to read "Battery Charger shall be a minimum three-phase 240-Volt system".
4. Bid Item No. 1, Page 13 of 27, Specification Provision 2.9.1: Change to read "Side-Shifting fork positioner with necessary auxiliary valves and hoses".
5. Bid Item No. 1, Page 13 of 27, Specification Provision 2.11.13: Change to read "Fire extinguisher – one (1) 2.5-lb mounted in a convenient location".
6. Bid Item No. 1, Page 13 of 27, Specification Provision 4.3: **DELETED**
7. Bid Item No. 2, Page 15 of 27, Specification Provision 2.1.1: Change to read "Three masts with minimum fork height elevation of 180 inches".
8. Bid Item No. 2, Page 15 of 27, Specification Provision 2.2.1: Change to read "Liquid Petroleum Gas (LPG) with an electric ignition. LPG Tanks shall be constructed of aluminum".
9. Bid Item No. 2, Page 15 of 27, Specification Provision 2.6.4: Change to read "Full suspension adjustable seat with operator restraints".
10. Bid Item No. 2, Page 15 of 27, Specification Provision 2.6.7: Change to read "Complete light package two forward lights and one rear light package with backup alarm".
11. Bid Item No. 2, Page 15 of 27, Add Specification Provision 2.6.12: "Seat shall be manufacturer's standard".
12. Bid Item No. 2, Page 15 of 27, Add 2.9 Tires Specification Provision 2.9.1: "Tires shall be solid pneumatic".
13. Bid Item No. 3, Page 17 of 27, Specification Provision 2.18.3: **DELETED**
14. Bid Item No. 3, Page 17 of 27, Specification Provision 2.18.9: Change to read "Mechanical Parking Brakes".

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Letter of Clarification No. 1, Forklifts and Manlift for Various Departments (Continued):

15. Bid Item No. 3, Page 18 of 27, Specification Provision 2.18.12: **DELETED**
16. Bid Item No. 3, Page 18 of 27, Specification Provision 5.1: Change second sentence to read "It is required that delivery shall be completed as expeditiously as possible, but no later than ninety (90) calendar days after receipt of the Purchase Order".
17. Bid Item No. 3, Page 18 of 27, Add Specification Provision 7.0:
7.0 PAPER WORK REQUIRED AT TIME OF DELIVERY:
- 7.1 Manufacturer's certificate of Origin (MSO if applicable). The back of the MSO should be filled out as follows: City of Houston, 611 Walker, 11th Floor, Houston, TX, 77002-2527.
 - 7.2 Copy of the invoice should arrive with the equipment. (Original invoice to be mailed to: COH Dept. of Public Works and Engineering, attn. Craig Foster, Accounts Payable, PO Box 61489, Houston, TX 77208-1489.

This clarification is hereby incorporated in this bid document and all bidders are directed to bid accordingly.

When issued, Letter(s) of Clarification shall automatically become a part of the bid documents and shall supersede any previous specification(s) and/or provision(s) in conflict with the Letter(s) of Clarification. It is the responsibility of the bidder to ensure that it has obtained all such letter(s). By submitting a bid on this project, bidder shall be deemed to have received all Letter(s) of Clarification and to have incorporated them into this bid.

If you should have any questions, or if further clarification is needed regarding this Invitation for Bid, please contact me.

Lena Farris

Procurement Specialist

832-393-8729

lana.farris2@cityofhouston.net

Attachment: Bid Document Specifications and Terms & Conditions, Pages 12 through 13 of 27, Page 15 of 27, and Pages 17 through 18 of 27, marked Revised March 8, 2010

cc: Bid File

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Council Members: Brenda Stardig Jarvis Johnson Anne Clutterbuck Wanda Adams Mike Sullivan Al Hoang Oliver Pennington
Edward Gonzalez James G. Rodriguez Stephen C. Costello Sue Lovell Melissa Noriega C.O. "Brad" Bradford
Jolanda "Jo" Jones **Controller: Ronald C. Green**

SECTION B
SPECIFICATIONS

PART II
TECHNICAL SPECIFICATIONS

ITEM NO. 1: FORKLIFT, 6,000-LB. CAPACITY, ELECTRIC POWERED

10085799, 10085874

1.0 GENERAL:

1.1 Equipment Description

1.1.1 These specifications are intended to describe a 6,000-lb capacity, self-propelled, three-phase 36-Volt electric powered riding unit for the Houston Airport System. The unit features non-marking cushion tires, maintenance free electric and hydraulic motors, and diagnostic capability when trouble shooting. The unit is designed for a variety of material handling applications in a warehouse environment.

2.0 SALIENT FEATURES (Unless otherwise specified, all criteria listed below are minimum):

2.1 General Machine Capacities:

- 2.1.1 6,000 lbs at 24-in. load center
- 2.1.2 Low effort tilt steering column
- 2.1.3 Travel speed governor
- 2.1.4 OEM standard paint

2.2 Electric Motor:

- 2.2.1 10 KW Drive motor
- 2.2.2 Maintenance Free
- 2.2.3 Key switch start

2.3 Transmission:

- 2.3.1 Transaxle Single-speed, power shift

2.4 Engine Specification:

- 2.4.1 Shall be Electric Powered

2.5 Tires:

- 2.5.1 (2) Non marking Drive Wheel, Smooth Cushion 21 x 8 x 15
- 2.5.2 (2) Non marking Steer Wheel, Smooth Cushion 16 x 6 x 10.5

2.6 Brakes:

- 2.6.1 Service - Foot/Hydraulic
- 2.6.2 Brake Assist - Electrically
- 2.6.3 Parking - Hand

2.7 Mast & Forks:

- 2.7.1 3 Stage Hi-Vis
 - 2.7.1.1 Lifting Height – minimum 186 inches
 - 2.7.1.2 Free Lift – 50-66 inches
 - 2.7.1.3 Tilt – minimum 6°forward and 5°backward
- 2.7.2 Forks – OEM Pallet 48 inches
- 2.7.3 Extensions – Extends Forks to 60 inches
- 2.7.4 Collapsed Mast Height – 83.3 inches

2.8 Voltage:

- 2.8.1 Battery shall be a minimum of 36 volts
- 2.8.2 Battery Charger shall be a minimum three phase 240-Volt system

SECTION B PART II TECHNICAL SPECIFICATIONS (CONTINUED)

ITEM NO. 1: FORK LIFTS 6,000-LB. CAPACITY ELECTRIC POWERED (Continued):

- 2.9 Carriage:
 - 2.9.1 Side-Shifting Fork positioner with necessary auxiliary valves and hoses
 - 2.9.2 Load backrest, 46 to 49 inches
 - 2.9.3 Data plate must reflect load and configuration of machine
- 2.10 Instrumentation:
 - 2.10.1 Continuous temperature indicator (Motor, Controller)
 - 2.10.2 Over temp indicator for power modules and motors
 - 2.10.3 Hour meter
 - 2.10.4 Charging System Indicator
 - 2.10.5 Parking Brake Indicator
 - 2.10.6 Duplicate (2) ignition keys
- 2.11 Operator Safety & Comfort Features:
 - 2.11.1 Markings and/or safety decals shall be in English
 - 2.11.2 Grab Handles, both sides
 - 2.11.3 Operators Overhead Guard
 - 2.11.4 Cloth Suspension seat with operator's restraints
 - 2.11.5 Low and High Voltage Limit
 - 2.11.6 Amber safety strobe mounted on top of overhead guard
 - 2.11.7 Power Line Fault Detection (Fuse/Contactor)
 - 2.11.8 Protection against Short or Open Circuits
 - 2.11.9 Rear View Mirrors
 - 2.11.10 Horn
 - 2.11.11 Backup alarm
 - 2.11.12 Work Lights switched separate (Halogen)
 - 2.11.12.1 Two (2) Front
 - 2.11.12.2 One (1) Rear
 - 2.11.13 Fire extinguisher – one (1) 2.5-lb mounted in a convenient location

3.0. ASSEMBLY:

- 3.1 Unit shall be delivered completely assembled, properly lubricated, fueled, and ready for use.

4.0. PAPERWORK REQUIRED AT TIME OF DELIVERY:

- 4.1 Manufacturer's Certificate of Origin (MSO if Applicable). The back of the MSO Should be filled out as follows: City of Houston, 611 Walker, 11th Floor, Houston, TX 77002-2527.
- 4.2 Copy of the Invoice. (Original Invoice to be mailed to: COH Dept. of Aviation, Accounts Payable, PO Box 60106, Houston, TX 77205-0106.)
- 4.3 ~~Any paperwork required to obtain Texas Tax Exempt License Plates. (If Applicable)~~ *Deleted*

5.0. LITERATURE:

- 5.1 One (1) complete set of parts, service, and operator's instruction manuals shall be delivered with the machine.

6.0 TRAINING:

- 6.1 The successful bidder shall provide two separate 2-hour sessions of instruction to City personnel on the use, operation, maintenance, and safety aspects of the unit at no additional cost to the City.
- 6.2 Training of Houston Airport System personnel on vendor's equipment shall be completed within 30 days of delivery and acceptance. The Houston Airport System may at its discretion extend the time up to 90 Days.

SECTION B PART II TECHNICAL SPECIFICATIONS (CONTINUED):

ITEM NO. 2: 6,000-LB. CAPACITY LIQUID PETROLEUM GAS (LPG) OPERATED PNEUMATIC FORK LIFT
1008577

1.0 GENERAL:

1.1 Equipment Description:

- 1.1.1 These specifications are intended to describe a 6,000 lb. minimum capacity forklift, Liquid Petroleum Gas powered for the Public Works and Engineering Department. The forklift will be used in a wastewater treatment plant to move pallets around in the plant.
- 1.1.2 Doosan Model G30E-5 or City approved equal.

2.0 SPECIFICATIONS:

2.1 Mast:

- 2.1.1 Three mast with a minimum for height elevation of 180 inches

2.2 Engine:

- 2.2.1 Liquid Petroleum Gas (LPG) with an electric ignition. (LPG) tank shall be constructed of aluminum
- 2.2.2 Appropriate Cooling System.

2.3 Transmission:

- 2.3.1 Power shift, single speed with travel speed 11-13 MPH (FWD. /REV.)

2.4 Steering:

- 2.4.1 Power

2.5 Brakes:

- 2.5.1 Service Foot/ Hydraulic brakes
- 2.5.2 Parking Hand/Mechanical

2.6 Operator Comfort & Safety:

- 2.6.1 Isolated operator module
- 2.6.2 Overhead guard
- 2.6.3 Tilt steering column
- 2.6.4 Full suspension adjustable seat with operator restraints
- 2.6.5 Starter switch
- 2.6.6 Electric horn
- 2.6.7 Complete light package two forward lights and one rear light with backup alarm
- 2.6.8 Towing coupler with counterweight
- 2.6.9 Fork length: 40-45 inches
- 2.6.10 Fork width: 4-5 inches
- 2.6.11 Fork thickness: 1.4 – 1.8 inches
- 2.6.12 Seat shall be manufacturer's standard

2.7 Hydraulic System:

- 2.7.1 Two-way hydraulics with control handle.

2.8 Instrumentation:

- 2.8.1 Fuel gauge
- 2.8.2 Coolant temperature gauge
- 2.8.3 Hour gauge
- 2.8.4 Oil pressure gauge
- 2.8.5 Charging system gauge
- 2.8.6 Transmission oil temperature gauge
- 2.8.7 Malfunction Indicator lights

2.9 Tires:

- 2.9.1 Tires shall be solid pneumatic

SECTION B PART II TECHNICAL SPECIFICATIONS (CONTINUED)

ITEM NO. 3: TRAILER MOUNTED MANLIFT

10085667

1.0 GENERAL:

1.1 Equipment Description

- 1.1.1 These specifications are intended to describe a Trailer Mounted Manlift, will be used in the treatment plants to replace light bulbs, greasing bearings on overhead conveyors, maintenance work on ventilators and other tasks at elevations between 10 and 40 feet for the Public Works & Engineering Department.
- 1.1.2 Genie Model TZ-34/20 City approved equal.

2.0 SALIENT FEATURES:

- 2.1 Lift Capacity (Ansi, Csa) – Standard – 500-lbs.
- 2.2 Lift Capacity (Ansi, Csa) – Rotating Platform – 460-lbs.
- 2.3 Tow Speed Rate – 60 mph.
- 2.4 I.D. Pintle Ring Coupling- 2.5 in. (6.53 cm)
- 2.5 Tires – ST 205/75 R15
- 2.6 Platform Height – Extended minimum 33 ft.
- 2.7 Boom Clearance – Over obstacle (up and over) 15 ft.
- 2.8 Horizontal Reach – 18 ft. 4 in.
- 2.9 Platform Length – 2 ft. 2.8 in.
- 2.10 Platform Width Minimum – 3 ft. 8 in
- 2.11 Ground Clearance Minimum – 9.5 in.
- 2.12 Outrigger Foot Print Minimum Length– 10 ft. 8.4 in.
- 2.13 Outrigger Foot Print Minimum Width– 11 ft. 9.4 in.
- 2.14 Platform Rotation – 90 degree mechanical
- 2.15 Battery – 24V DC power source, (four 6V 225 Ah batteries) minimum 225 amp hours total.
- 2.16 Battery Charger Indicator– (BCI)
- 2.17 Hydraulic Tank Capacity – 3.85 gal
- 2.18 Additional Features:
 - 2.18.1 Self-leveling Platform
 - 2.18.2 Variable speed control system
 - 2.18.3 **DELETED**
 - 2.18.4 Tilt alarm/sensor
 - 2.18.5 AC wiring platform
 - 2.18.6 Hydraulic outriggers
 - 2.18.7 Automatic 11 degree leveling system
 - 2.18.8 Outrigger interlocks
 - 2.18.9 Mechanical Parking Brakes
 - 2.18.10 Hydraulic surges brakes

SECTION B PART II TECHNICAL SPECIFICATIONS (CONTINUED):

ITEM NO. 3: TRAILER MOUNTED MANLIFT (Continued):

2.18 Additional Features (Continued):

- 2.18.11 Auxiliary pump down
- 2.18.12 **DELETED**
- 2.18.13 359 degree non-continuous turntable rotation
- 2.18.14 Hour meter

3.0 WARRANTY:

- 3.1 The supplier shall provide a full one-year warranty on the pump, which includes parts and labor. The warranty work shall be conducted within 3 working days after receipt of written notice from the City. All shipping charges for warranty work that is required outside the Houston area will be borne by the supplier.

4.0 LITERATURE: (provided at time of delivery)

- 4.1. Two (2) set of parts, operation and maintenance manuals for each manlift at time of delivery.

5.0 DELIVERY:

- 5.1 Units (s) as specified above with delivery ticket and other required documents shall be delivered Prepaid F.O.B. Destination to the address shown on the City of Houston Purchase Order. It is required that delivery shall be completed as expeditiously as possible, but no later than ninety (90) calendar days after receipt of the Purchase Order.

6.0 TRAINING:

- 6.1 The successful Contractor/Supplier shall provide four (4) hours of training to instruct City personnel on the proper operation and maintenance of the unit at a designated City of Houston location.

7.0 PAPER WORK REQUIRED AT TIME OF DELIVERY:

- 7.1 Manufacturer's certificate of Origin (MSO if applicable). The back of the MSO should be filled out as follows: City of Houston, 611 Walker, 11th Floor, Houston, TX, 77002-2527.
- 7.2 Copy of the invoice should arrive with the vehicle. (Original invoice to be mailed to: COH Dept. of Public Works and Engineering, attn. Craig Foster, Accounts Payable, PO Box 61489, Houston, TX 77208-1489.
- 7.3 Any paperwork required to obtain Texas Tax Exempt License Plates (If applicable).